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AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1-50. (Cancelled)

51. (New) An in vivo device comprising:

a plurality of optical windows behind which are positioned, at least, an illumination source and an imager, said optical windows facing different directions.

52. (New) The device according to claim 51 wherein said windows are arranged in opposing directions.

53. (New) The device according to claim 51 wherein each window is dome shaped.

54. (New) The device according to claim 51 comprising a lens positioned behind the optical windows.

55. (New) The device according to claim 51 comprising a lens positioned between an imager and an optical window.

56. (New) The device according to claim 51 comprising a plurality of illumination sources and a plurality of imagers, wherein an illumination source and an imager are positioned behind each optical window.

57. (New) The device according to claim 51 comprising a transmitter.

58. (New) The device according to claim 57 wherein the transmitter transmits over a single channel.

59. (New) The device according to claim 57 wherein the transmitter transmits over multiple channels.

60. (New) The device according to claim 51 wherein the device is capsule shaped.

61. (New) A system for in vivo imaging, said system comprising:

an in vivo imaging device, said device containing within it at least:

a plurality of imagers facing different directions and an illumination source; and

an external receiver for receiving signals from the in vivo imaging device.

62. (New) The system according to claim 61 wherein the in vivo imaging device comprises a transmitter.
63. (New) A method for in vivo imaging of a body lumen, the method comprising the steps of:
 - illuminating in vivo sites from behind at least two optical windows;
 - obtaining images of the in vivo sites; and
 - transmitting signals from within the body lumen.
64. (New) The method according to claim 63 comprising the step of illuminating the in vivo sites from different directions.
65. (New) The method according to claim 63 comprising obtaining images of the in vivo sites from at least two imagers.
66. (New) The method according to claim 63 comprising obtaining images from a front and from a rear of an in vivo imaging device.
67. (New) The method according to claim 63 comprising transmitting signals over a radio channel.
68. (New) An in vivo device comprising:
 - a plurality of illumination sources and a plurality of imagers; and
 - a plurality of optical domes, behind each of which are positioned an illumination source and an imager, each of said optical domes facing opposite directions.
69. (New) The device according to claim 68 comprising a lens positioned between an imager and an optical dome.
70. (New) The device according to claim 68 comprising a transmitter.
71. (New) The device according to claim 68 wherein said device is capsule shaped.